

**Abstract****METHOD AND APPARATUS FOR TRANSMITTING INFORMATION IN  
VARIOUS CARRIER FREQUENCIES WITH A FREQUENCY HOPPING  
METHOD**

- 5           The present invention is directed to a method and to an apparatus for the transmission of information in various carrier frequencies with a frequency hopping method. A table 25 with a plurality of n possible carrier frequency values  $f_x$  in addresses 1 through N of the table 25 is thereby offered. Further, a sequence of random values is generated, for example in a random number generator 22, on the
- 10   basis whereof a part M of the N carrier frequency values  $f_x$  is read from the corresponding addresses of the table 25, whereby  $M \leq N$  applies. Information are subsequently transmitted in the corresponding carrier frequencies. The inventive apparatus or, respectively, the inventive method can be implemented, for example, in a mobile station and/or a base station of a mobile radiotelephone system.
- 15   Figure 1